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Dated - 5 MAY 2000

Patent Form 1/77

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19APR99 E440833-1 002716

P01/7700 0.00 - 9908847.8

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The Patent Office

Cardiff Road

Newport

Gwent NP9 1RH

1. Your reference

PAT 99409q GB

2. Patent application number

(The Patent Office will fill in this part)

19 APR 1999

9908847.8

3. Full name, address and postcode of the or of each applicant *(underline all surnames)*NOKIA MOBILE PHONES LIMITED
KEILALAHDENTIE 4
02150 ESPOO
FINLANDPatents ADP number *(if you know it)*

59 1199 5004

If the applicant is a corporate body, give the country/state of its incorporation

FINLAND

4. Title of the invention

TELECOMMUNICATION SERVICES IDENTIFICATION

5. Name of your agent *(if you have one)**"Address for service" in the United Kingdom to which all correspondence should be sent (including the postcode)*NOKIA IPR DEPARTMENT
NOKIA HOUSE
SUMMIT AVENUE
FARNBOROUGH
HAMPSHIRE
GU140NG UKPatents ADP number *(if you know it)*

75 776 38 001

6. If you are declaring priority from one or more earlier patent applications, give the country and the date of filing of the or of each of these earlier applications and *(if you know it)* the or each application number

Country

Priority application number
*(if you know it)*Date of filing
*(day / month / year)*GB
GB9904181.6
9906756.324.02.1999
24.03.1999

7. If this application is divided or otherwise derived from an earlier UK application, give the number and the filing date of the earlier application

Number of earlier application

Date of filing
*(day / month / year)*8. Is a statement of inventorship and of right to grant of a patent required in support of this request? *(Answer 'Yes' if:*

- a) any applicant named in part 3 is not an inventor, or
- b) there is an inventor who is not named as an applicant, or
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See note (d).)

YES

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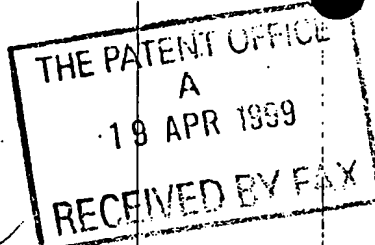
Continuation sheets of this form

Description 3

Claim(s)

Abstract

Drawing(s) 13



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Priority documents

Translations of priority documents

Statement of inventorship and right to grant of a patent (Patents Form 7/77)

Request for preliminary examination and search (Patents Form 9/77)

Request for substantive examination (Patents Form 10/77)

Any other documents (please specify)

11.

I/we request the grant of a patent on the basis of this application.

Signature

JULIET HIBBERT

Date

19.4.1999

12. Name and daytime telephone number of person to contact in the United Kingdom

Miss K Jeffery 01252 865306

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Patents Form 1/77

- 5 Considering the global environment where the multimedia services are to be applied, several call set-up scenarios are possible for circuit switched H.324 multimedia service. A significant part of the H.324 calls will be between two 3GPP terminals. Other currently identified call scenarios are between 3G-PSTN, 3G-ISDN and 3G-IP.

- 10 The H.245 [7] is a control protocol that is common between the different multimedia systems V.70, H.310, H.323 and H.324. The control protocol is run on the logical control channel and is used for example to negotiate master/slave configuration, bit rate, codecs to be used, to measure the round trip delay, logical channels to be used and the type of each logical channel. H.245 procedures are executed after successful call set-up and are not covered in detail in this specification.

- 15 In all call set-up scenarios of this specification, it is assumed that H.324 service related bitstream descriptor H.223/H.245 is indicated in the BC IE and the LLC IE in the 04.08 [13] set-up message. This is further analysed in a separate section in clause 4 of this specification.

- 20 In some interworking scenarios a gateway is possible. This can then be, e.g., a gateway as described in H.246 [8] possibly with less or more functions. The 3G H.324 – IP scenario is such and suggested procedures are FFS in other UMTS specifications.

Definitions.

- 25 For the purposes of the present document, the terms and definitions apply.
bearer capability information: Specific information defining the lower layer characteristics required within the network.
low layer compatibility information: Information defining the lower layer characteristics of the terminal.
- 30 **high layer compatibility information:** Information defining the higher layer characteristics of the terminal.
compatibility information: This term subsumes the entirety of Bearer Capability, Low Layer Compatibility, High Layer Compatibility, Progress Indicator and Address Information conveyed out-of-band prior to call establishment for the support of
- 35 **compatibility checking and terminal/function/service selection at the ISDN-type user-network interface.**
progress indicator: Information supplied to indicate to the terminal that network interworking has taken place.
out-of-band parameter exchange: Information exchanged via an associated or
- 40 **non-associated signalling link e.g. SS-No-7.**
PSTN: Subscriber to network interface supports only analogue terminals.

ISDN: Subscriber to network interface supports digital or analogue terminals, plus a standardised user to network associated signalling system and a standardized internetwork signalling system.

- 5 **Mobile/3G H.324 terminal:** a H.324 terminal following the specifications stated in [1], utilising mobile adaptations of the multiplexing layer in ITU-T H.223 [3] (i.e. H.223 Annex A [4], B [5] and C [6]) is hereafter referenced in this specification as H.324 terminal for simplicity. Those mobile adaptations may or may not be used in non-3G H.324 terminals – the in-band peer-to-peer multiplex level exchange is outside the scope of this specification.
- 10 **ANSam:** Answer sinewave signal at 2100 Hz, amplitude-modulated.

Abbreviations.

For the purposes of the present document, the following abbreviations apply:

	ACM	Address Complete Message
	ANM	Answer Message
15	BC	Bearer Capability
	BS	Bearer Service
	CE	Connection Element
	CF	Call Function
	CI	Call Indicator
20	CM	Call Menu
	CPG	Call Progress
	DCE	Data Circuit Equipment
	DSS1	Digital Subscriber Signalling 1
	DTE	Data Terminating Equipment
25	FFS	For Further Study
	FNUR	Fixed Network User Rate
	GSTN	Ground Switched Telecommunications Network
	HLR	Home Location Register
	IAM	Initial Address Message
30	IE	Information Element
	IP	Internet Protocol
	ISDN	Integrated Services Digital Network
	ISUP	Integrated Services User Part
	ITC	Information Transfer Capability
35	IWF	Interworking Function
	JM	Joint Menu
	LE	Local Exchange
	LLC	Low Layer Compatibility
	MS	Mobile Station
40	MSC	Mobile Switching Centre
	N-ISDN	Narrow-band ISDN
	PLMN	Public Land switched Mobile Network
	PSTN	Public Switched Telephone Network
	SVD	Simultaneous Voice and Data
45	UDI	Unrestricted Digital Information
	UI-L1	User Information Layer-1 Protocol
	UTRAN	UMTS Terrestrial Radio Access Network
	WAIUR	Wanted Air Interface User Rate
50	VLR	Visitor Location Register

3

- 5 This description relates to call set-up procedures for setting up H.324 circuit switched multimedia calls to and from terminals that exploit the call control specified in GSM/UMTS 04.08 Release 99 version. These relate to so-far-identified circuit switched domain interworking scenarios, and explain in detail the call set-up process with illustrated call set-up message flows. More interworking scenarios may be developed.

1/13

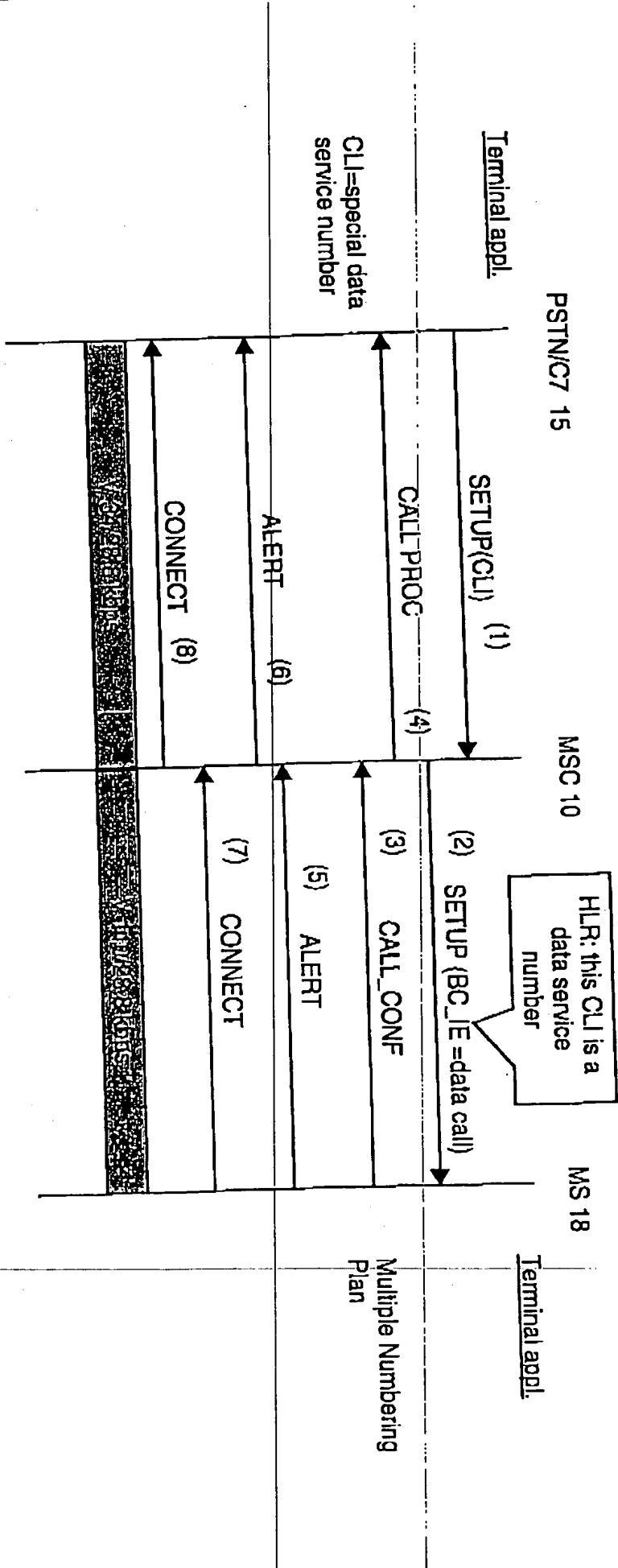


FIGURE 2a

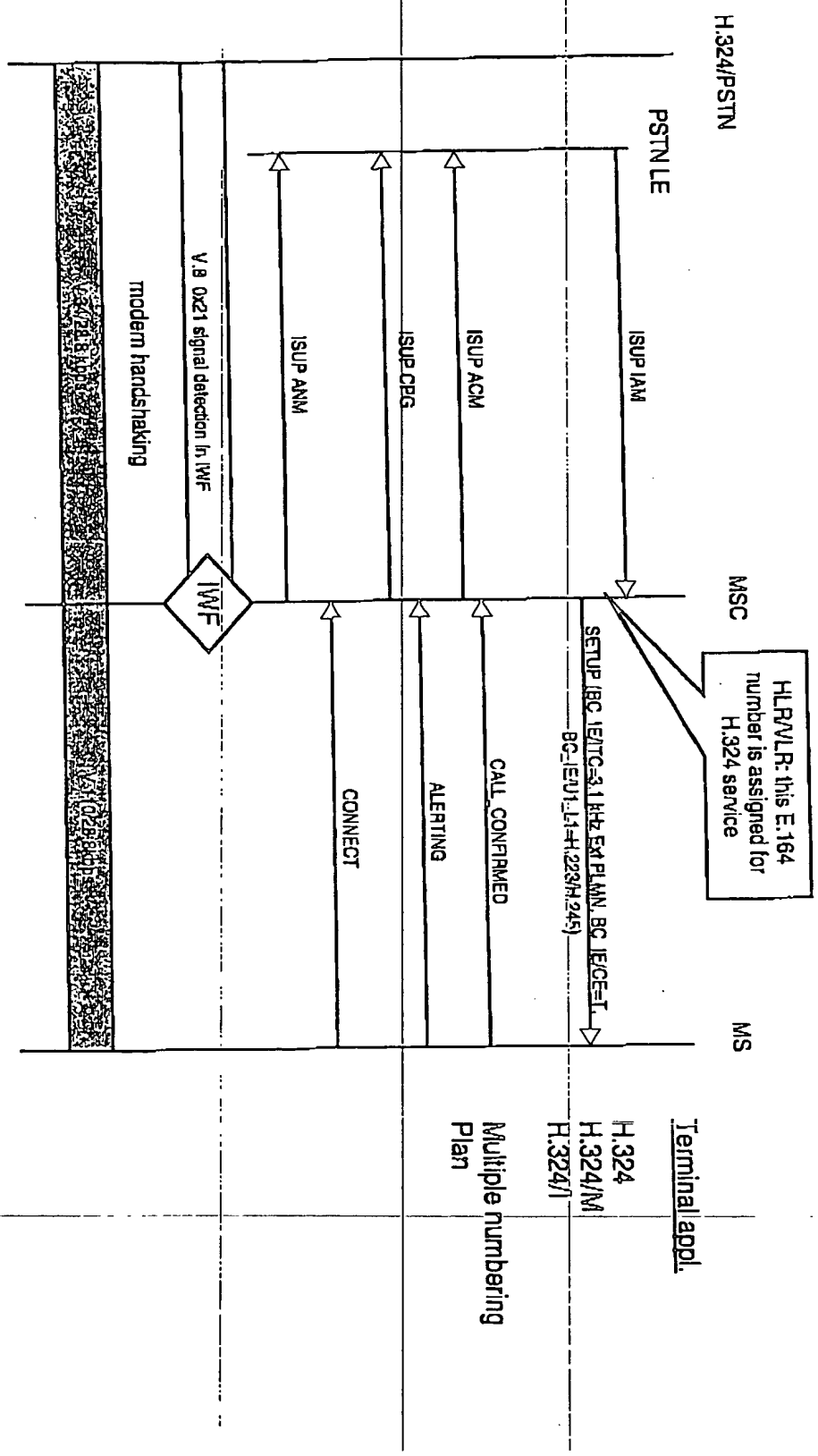


FIGURE 2b

When V.8 CF code 0x21 is received from PSTN, MSC sure that originating end supports H.324 application

PSTN-MS direct call without V.8bis involvement, single-numbering Scheme

3/13

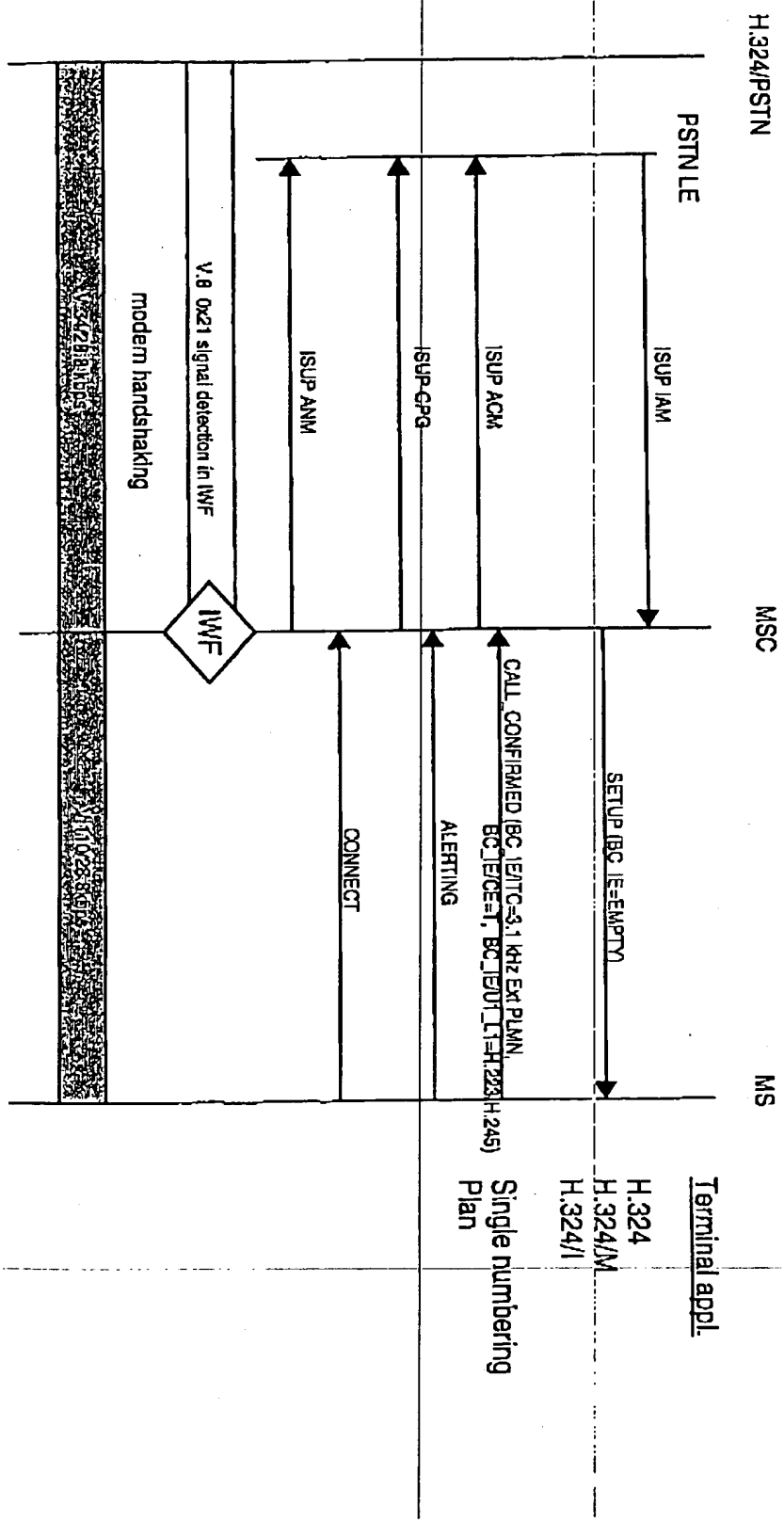


FIGURE 2b

When V.8 CF code 0x21 is received from PSTN, MSC sure that originating end supports H.324 application

4/13

PSTN-MS direct call involvement, single-numbering Scheme, (preferred embodiment)

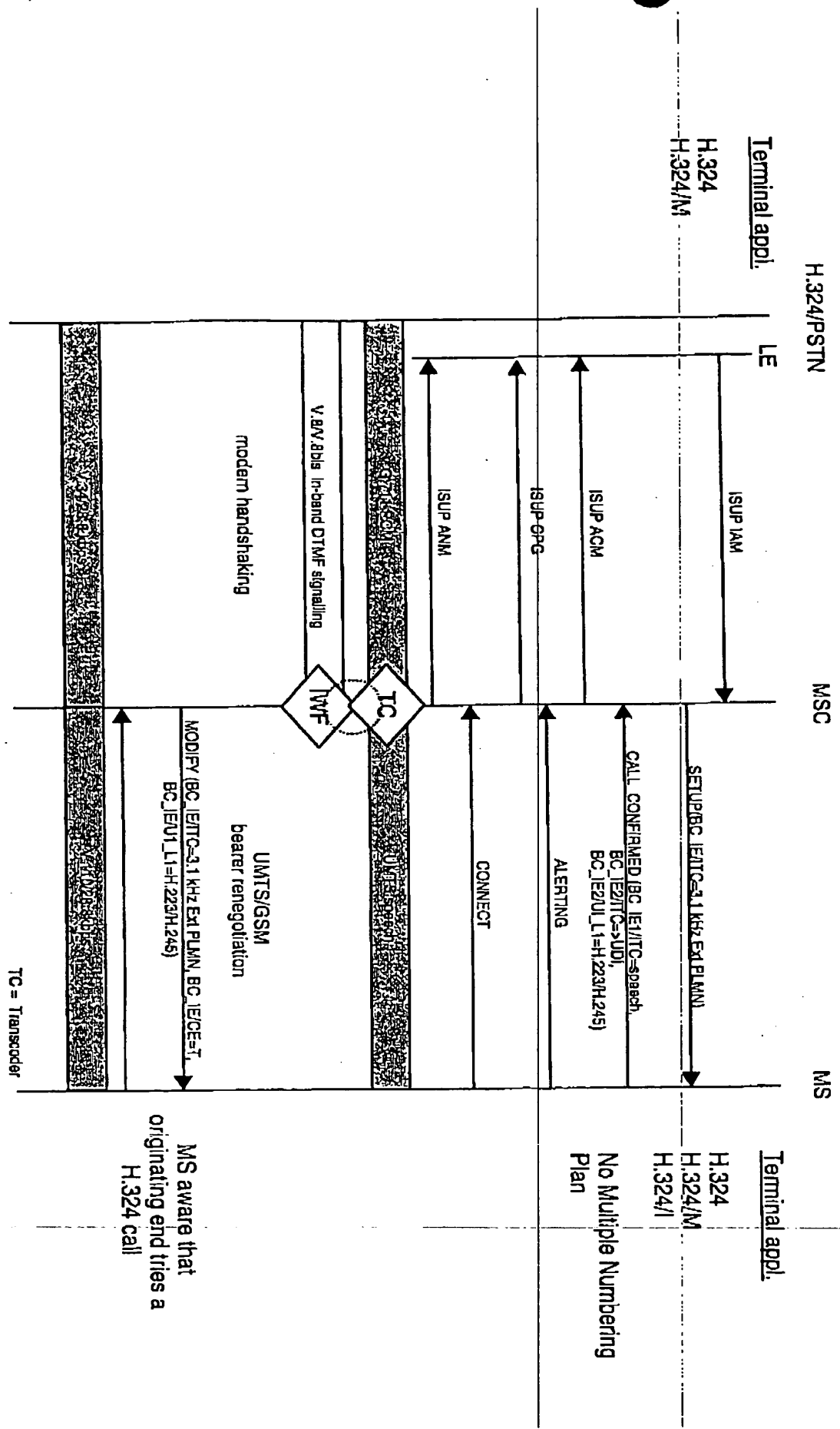


FIGURE 4a

5/13

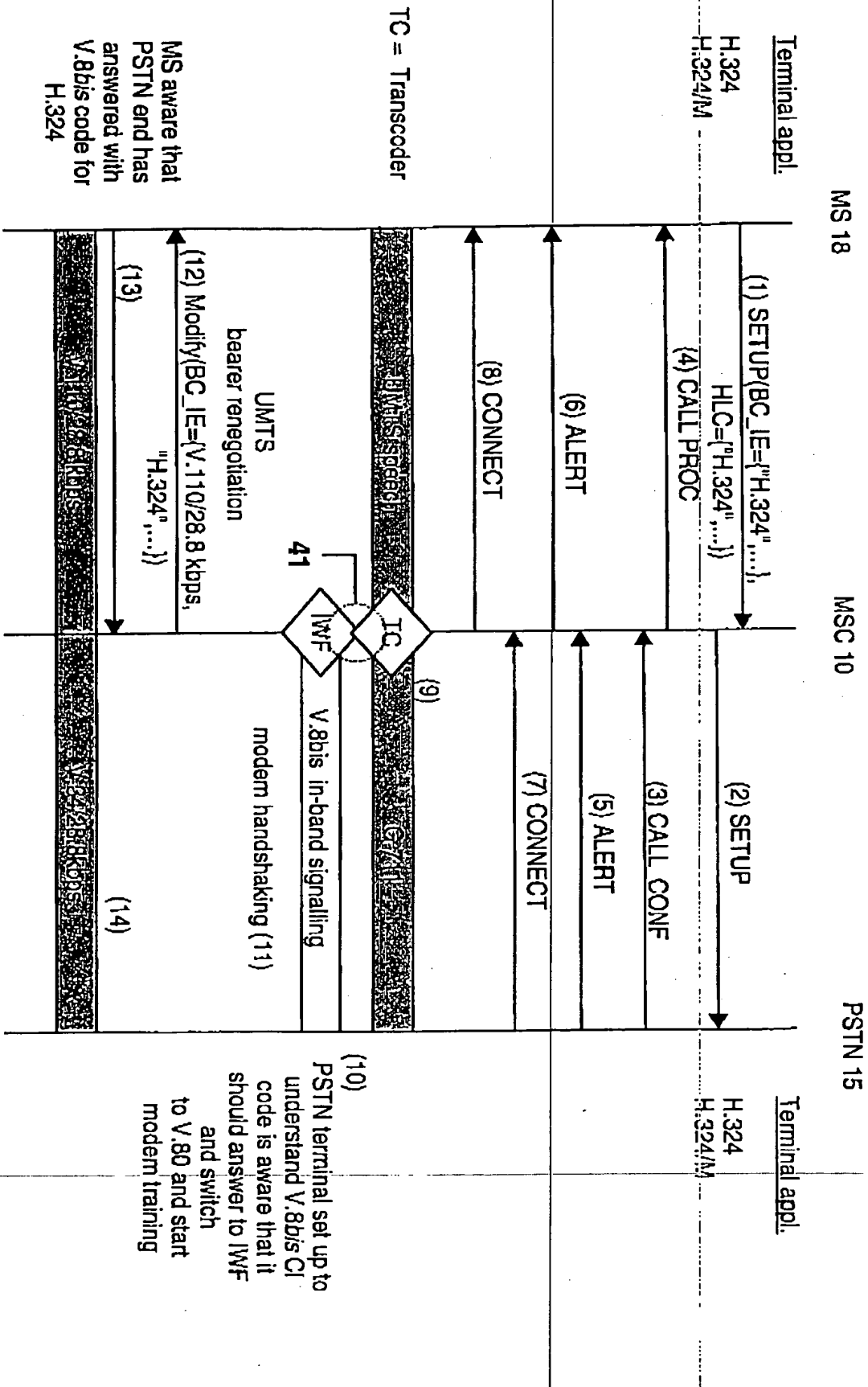


FIGURE 4b

MS - PSTN direct call without V.8bis involvement

6/3

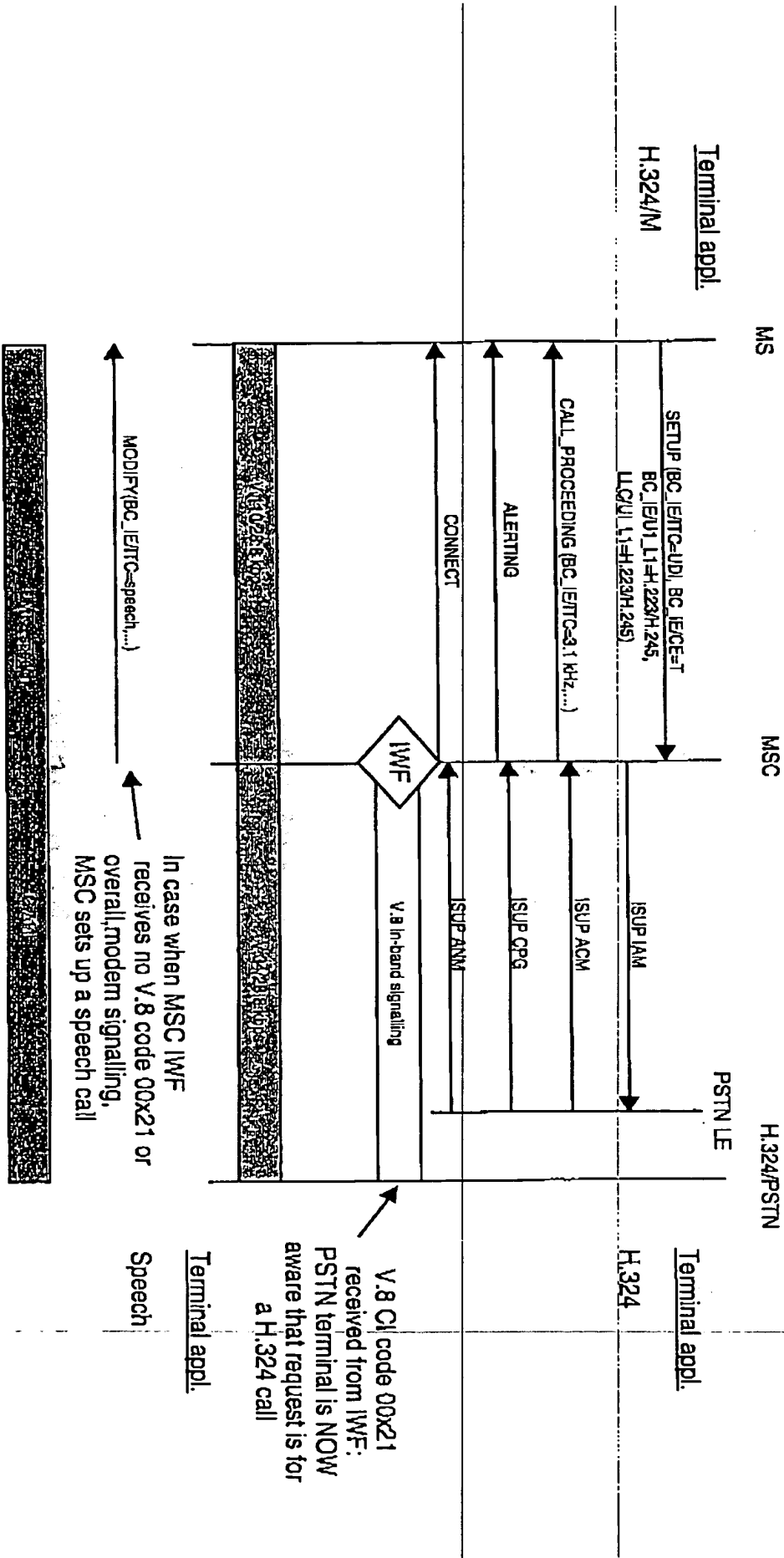


FIGURE 4c

7/13

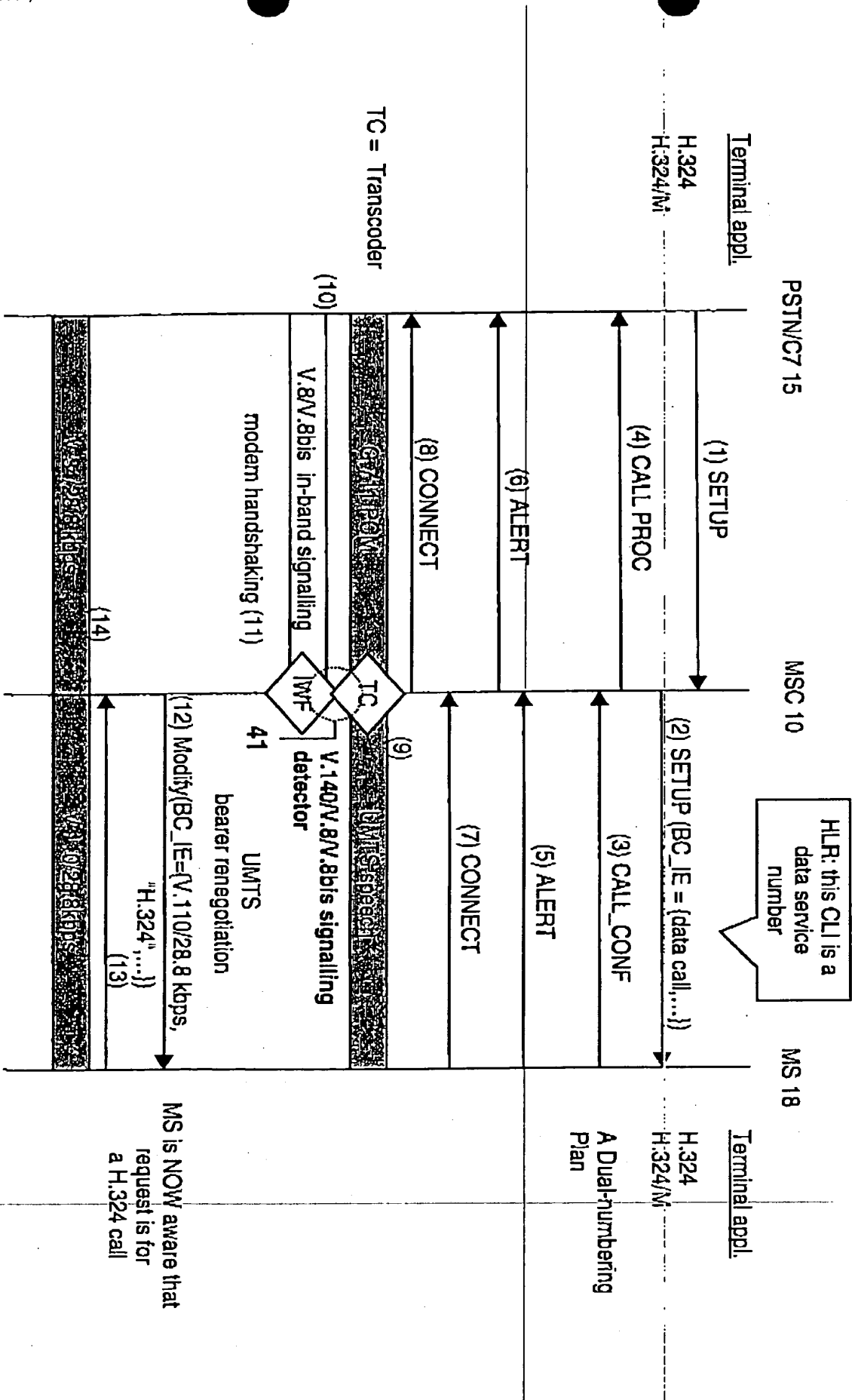


FIGURE 5b

8/13

UMTS - UMTS

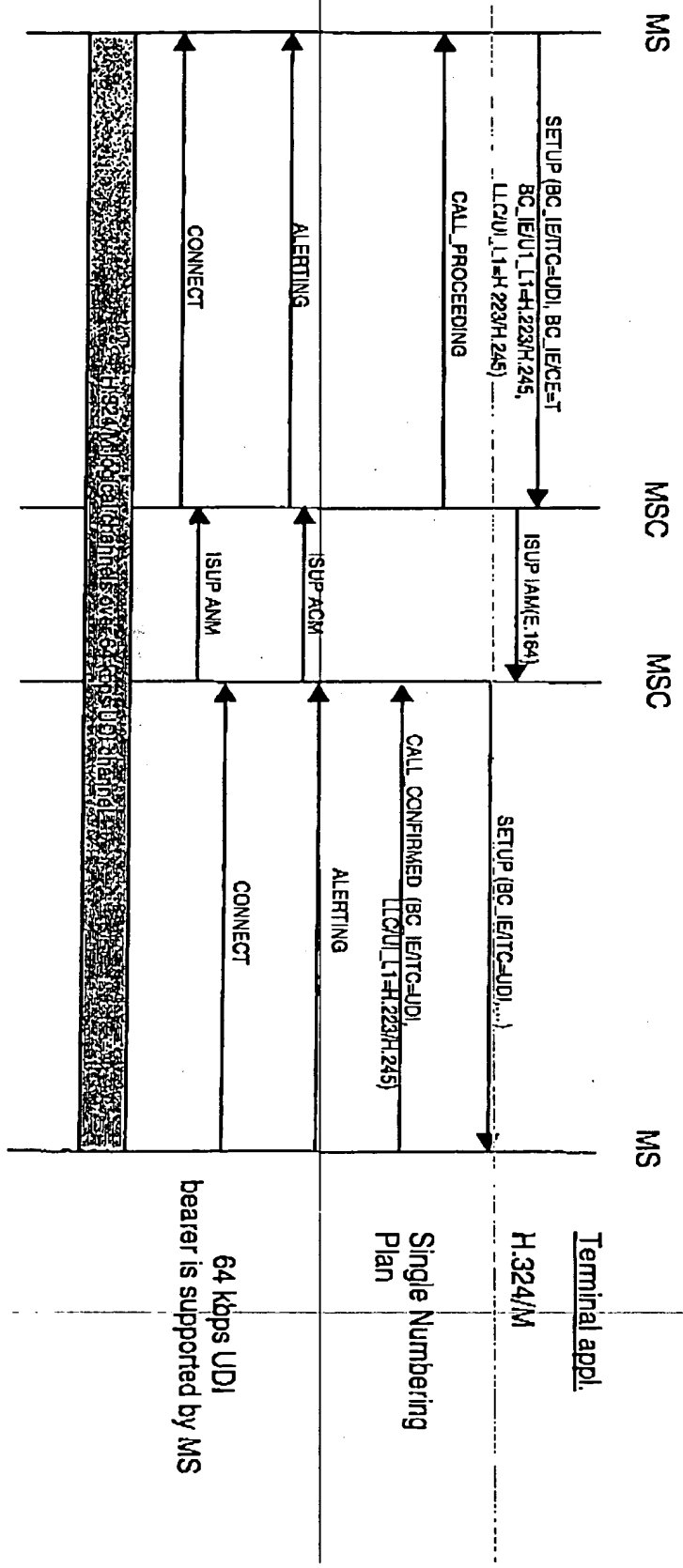


FIGURE 7a

UMTS - 2G

9/13

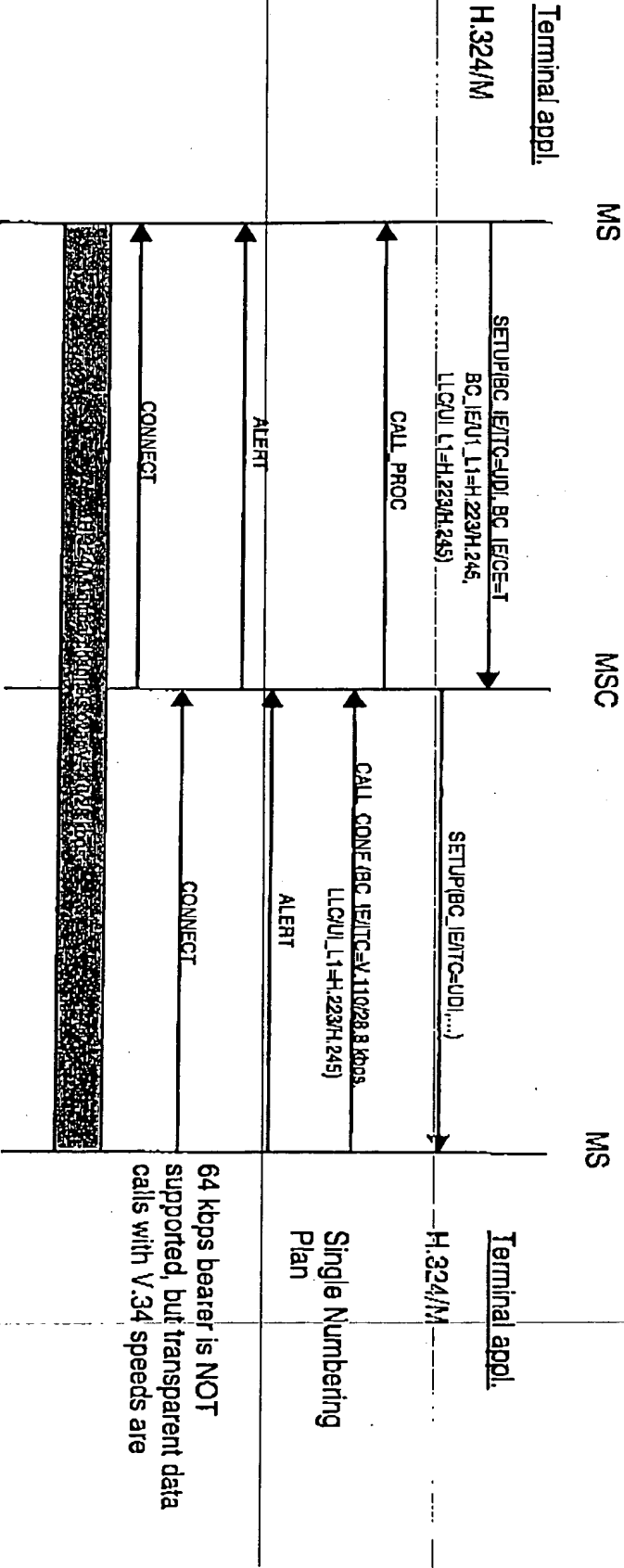


FIGURE 7a

ISDN - UMTS

10/13

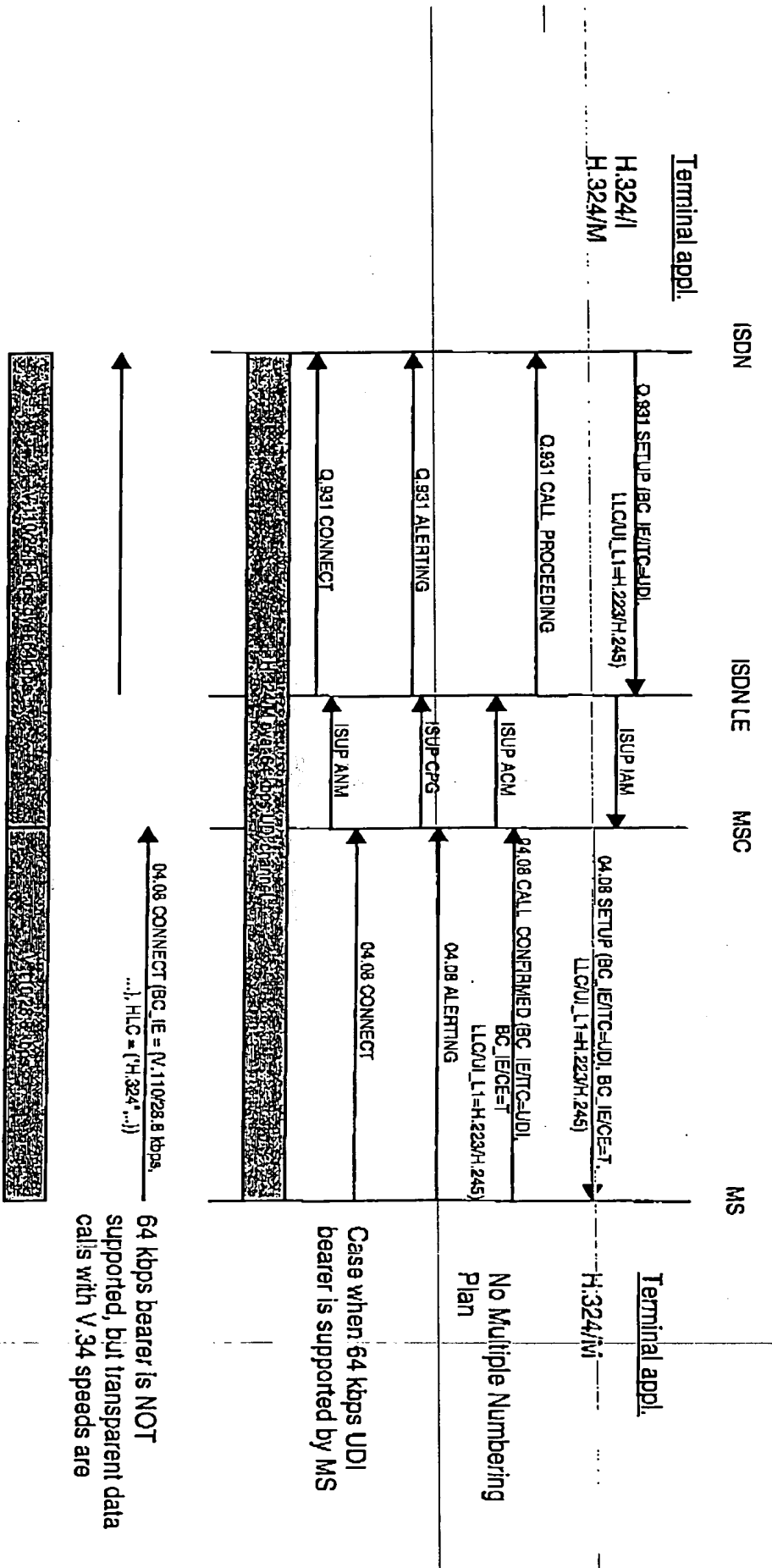


FIGURE 7a

$$11/3$$


12/13

UMTS - ISDN

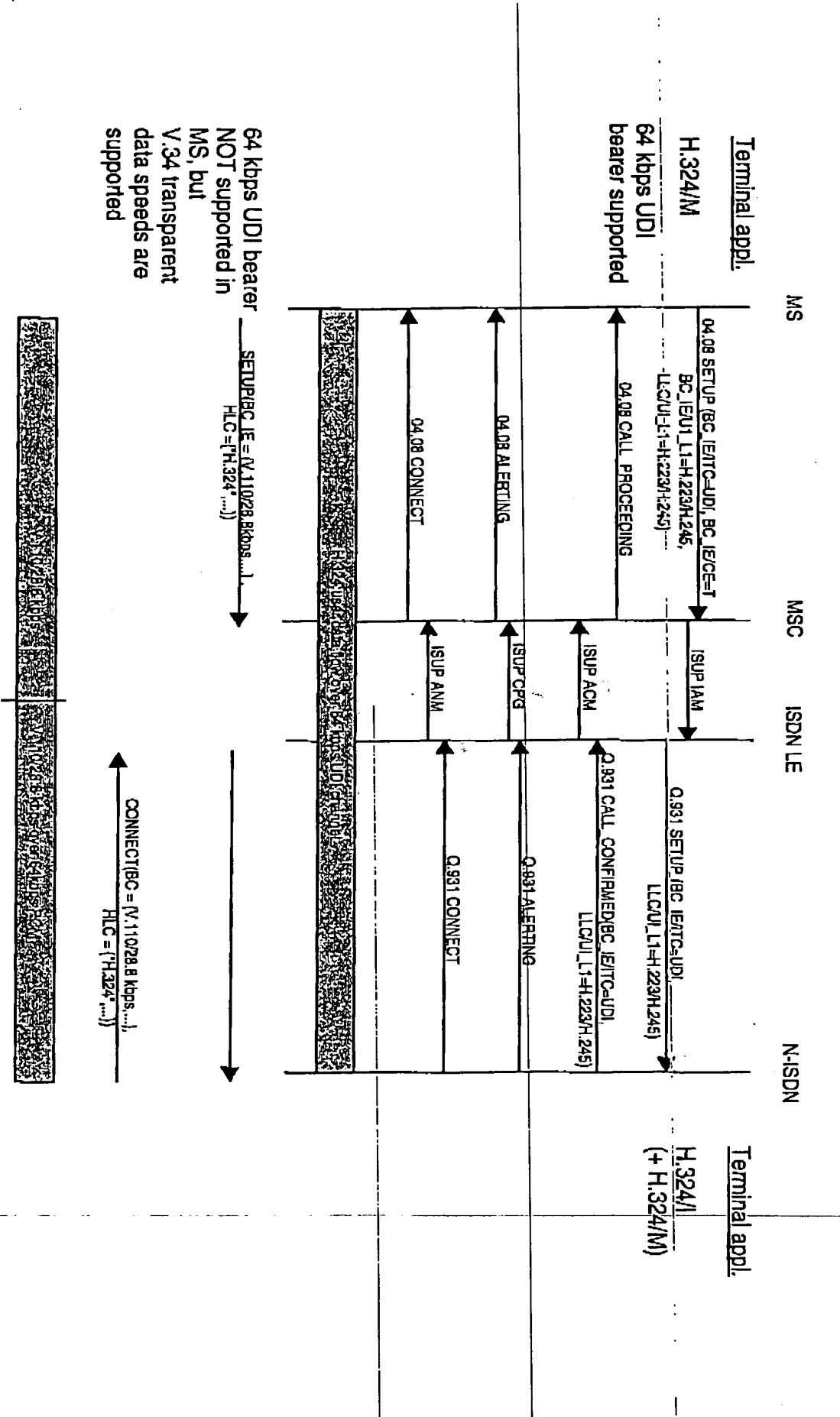


FIGURE 8a

13/13

UMTS - ISDN without end-to-end LLC

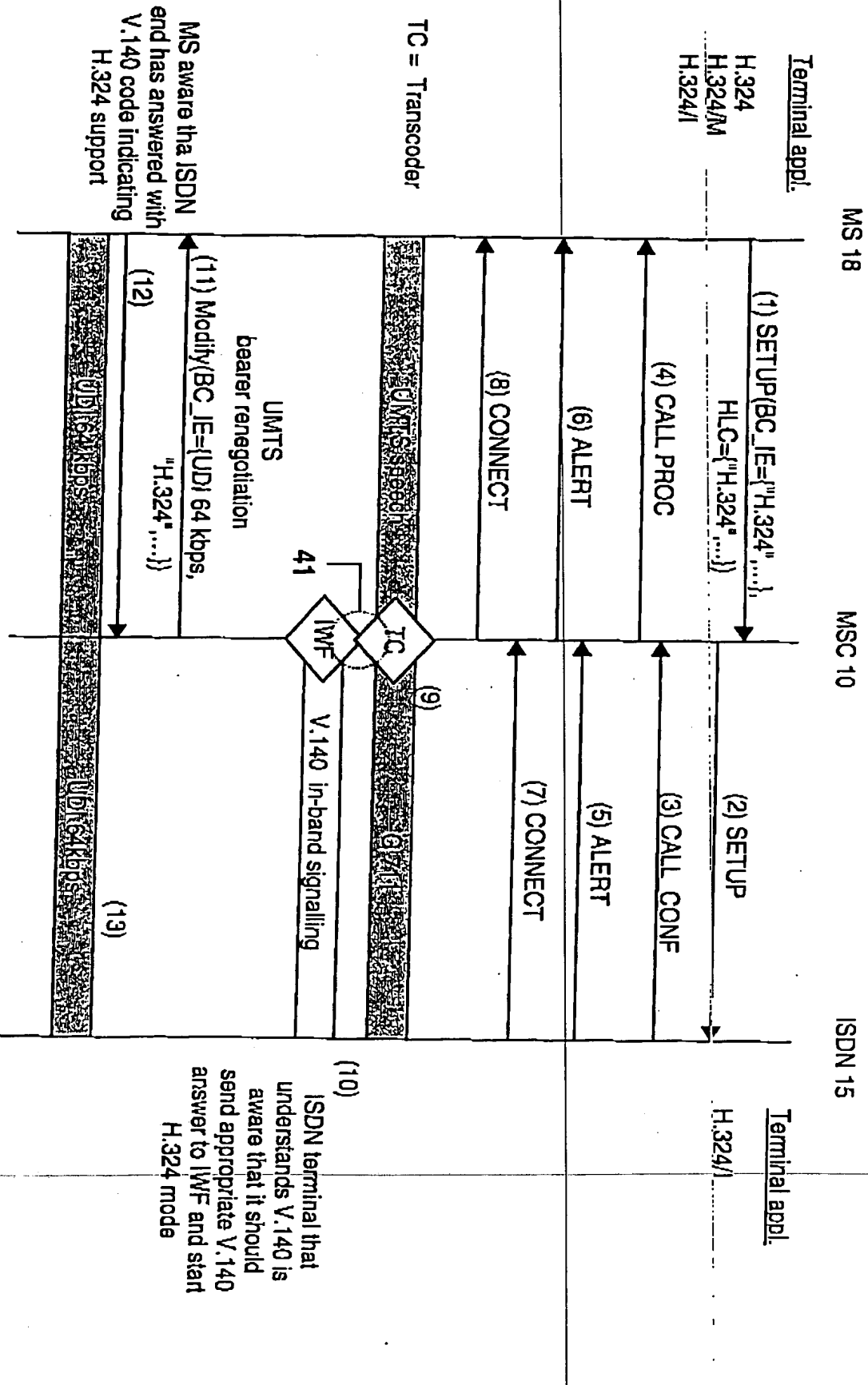


FIGURE 8b

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